

Serial No. - 09/925,059
Art Unit - 2878

bandwidth of $0.48\mu\text{m}$ to $12\mu\text{m}$. This is acceptable in part, because the LWIR sensor may only be sensitive to $8\mu\text{m}$ - $12\mu\text{m}$.

Please replace the final paragraph on page 14 with the following amended paragraph:

Referring generally to Figs. 2 and 3A, an optical aperture such as a beam splitter 126 that is reflective of radiation in the LWIR spectral range, and transmissive of radiation in the VIS and NIR spectral ranges is mounted behind the objective lens 124A. The beam splitter 126 reflects radiation in the LWIR spectral range from the objective lens 124A towards the LWIR sensor 118. Similarly, the beam splitter 126 transmits radiation in the VIS/NIR spectral ranges to the NIR sensor 116. Depending upon the orientation of the LWIR sensor 118 with respect to the beam splitter 126, a reflective surface such as a mirror 128 is mounted between beam splitter 126 and LWIR sensor 118 such that radiation in the LWIR spectral range entering through the aperture 120 passes through the objective lens 124A, is reflected in turn by the beam splitter 126, then by the mirror 128 towards LWIR 118. A beam splitter as used herein is any structure such as an optical aperture that is transmissive of radiation in at least a portion of one spectral range, and reflective of radiation in at least a portion of a second spectral range different from the first spectral range. For example, the beam splitter 126 may be ~~brined~~ formed for example from a dielectric material deposited on a glass substrate, or otherwise coated by a transmissive waveband filter of 0.48μ - 1.1μ and a reflective waveband filter of 8μ - 12μ .

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Please replace the ^{first} final paragraph on page 21 with the following amended paragraph:

Depending upon the selection of the LWIR sensor 118, additional electronic circuitry 144 may be required to produce an LWIR output signal 146 suitable to be processed. The electronic ~~output~~ circuitry 144 may also be utilized to implement processing feature 160 of the LWIR sensor 118 as more fully described herein. It will be observed that the BST utilizes a chopper, and as such may produce an audible sound while in operation. Therefore, in applications